Mean Amplitudes of Vibration of the Halogen Molecules

Enrique J. Baran

made.

Centro de Química Inorgànica (CEQUINOR/CONICET, UNLP), Facultad de Ciencias Exactas, Universidad Nacional de La Plata, C. Correo 962, 1900 La Plata, Argentina

Reprint requests to Prof. Dr. E. J. B.; Fax: (54)02214259485; E-mail: baran@quimica.unlp.edu.ar

Z. Naturforsch. **58a**, 36–38 (2003); received September 9, 2002 Dedicated to Prof. Achim Müller on the occasion of his 65th birthday

Mean amplitudes of vibration of the halogen molecules F₂, Cl₂, Br₂, and I₂ have been calculated from known spectroscopic data in the temperature range between 0 and 1000 K. The results are briefly discussed, and some comparisons with the results of the related diatomic interhalogen molecules, as well as with experimental values obtained by electron diffraction experiments, are

Key words: F₂, Cl₂, Br₂, I₂; Mean Amplitudes of Vibration; Bond Properties.